

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

2/25
PATENT
#8
CSures
8/103

Applicant(s):

Shi, et al.

Title:

SYSTEM AND SOFTWARE FOR DATA COLLECTION AND

PROCESS CONTROL IN SEMICONDUCTOR MANUFACTURING

AND METHOD THEREOF

Application No.: 09/905,220

Filed:

July 12, 2001

Examiner:

Alexander J. Kosowski

Group Art Unit: 2125

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Atty. Docket No.: 1458.TT4869

NOA Date:

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Technology Center 2100

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SUBMISSION OF NEW FORMAL DRAWINGS

Transmitted herewith are twenty-two (22) sheets of new formal drawings containing Figs. 1; 2; 3; 4A & 4B; 5A & 5B; 6-20, respectively.

The new drawings correct informalities.

Respectfully submitted,

Date

Gustav Larson, Reg. No. 39,263 Attorney for Applicant(s) TOLER, LARSON & ABEL, L.L.P. P.O. Box 29567

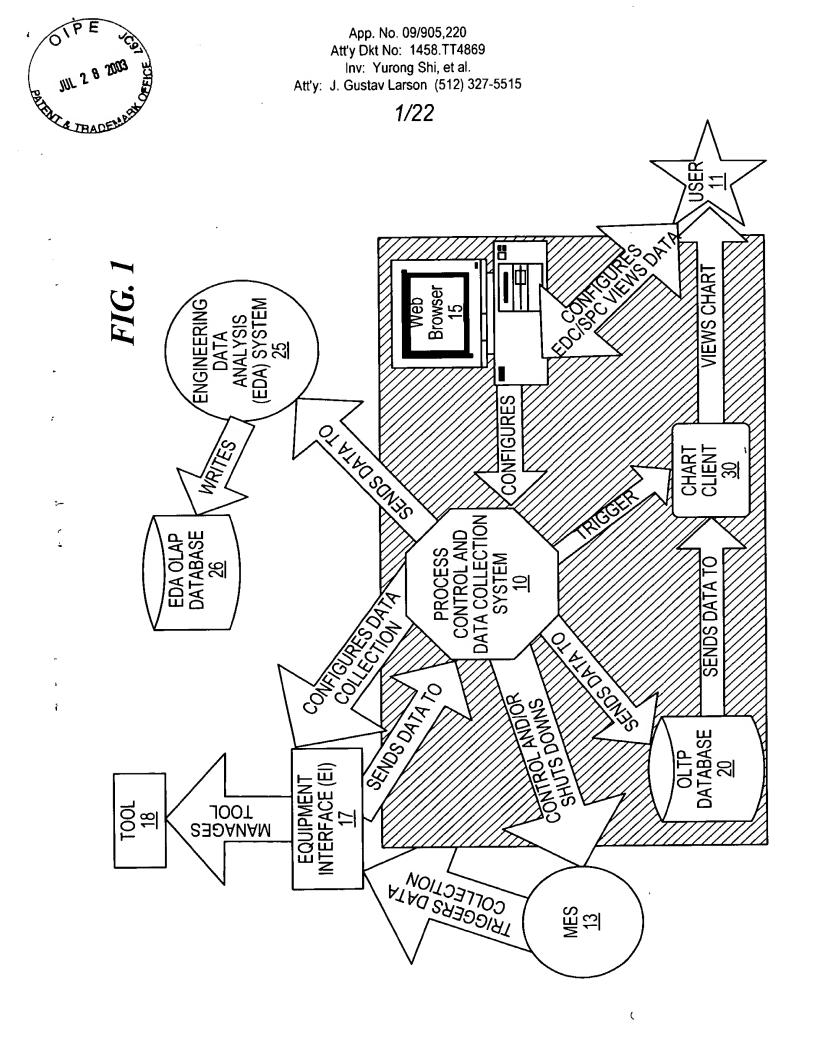
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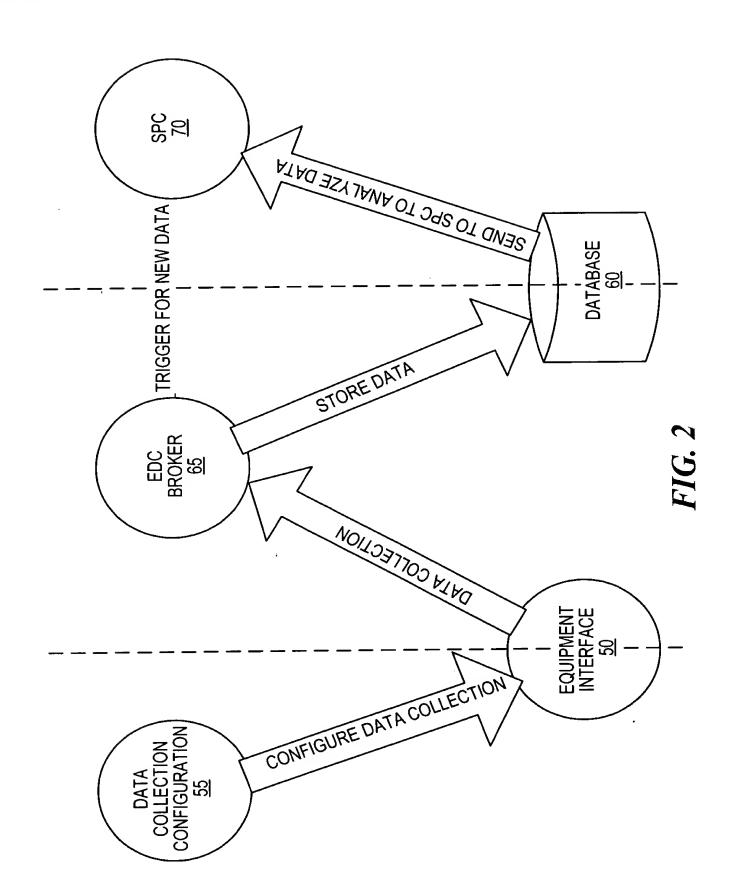
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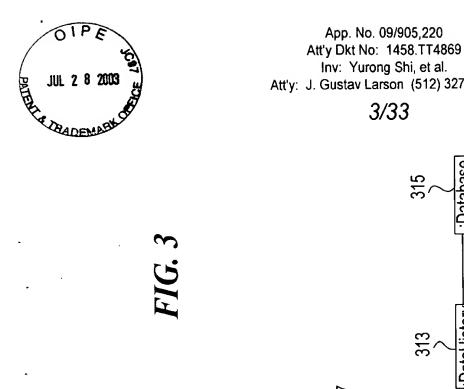


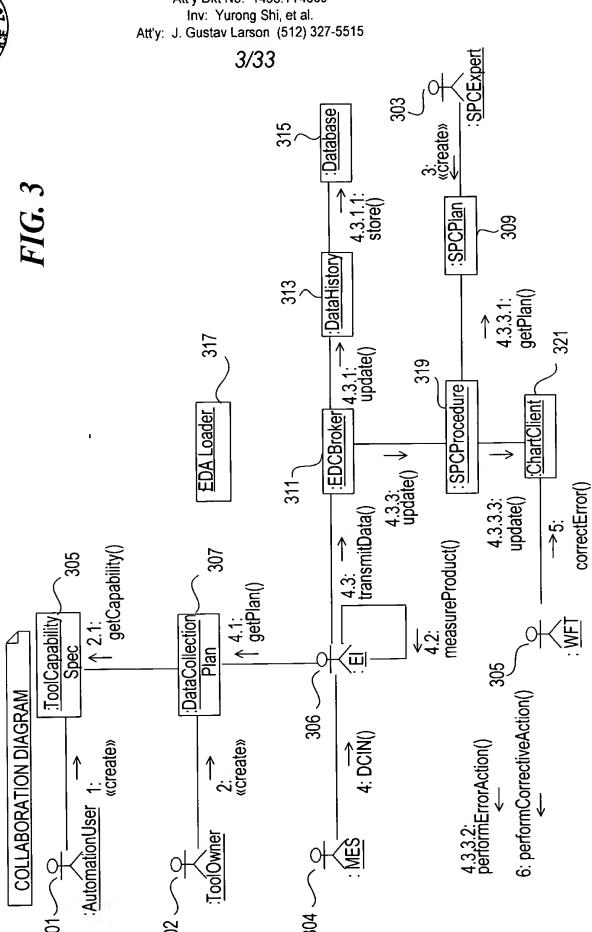
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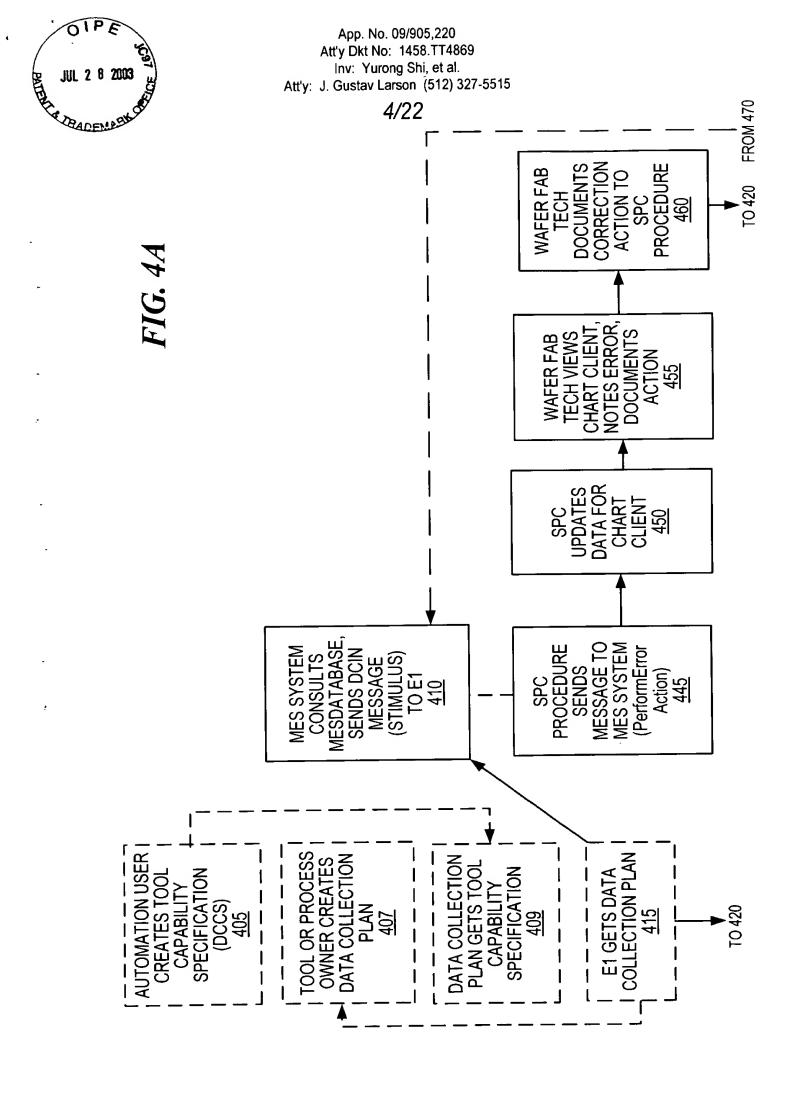
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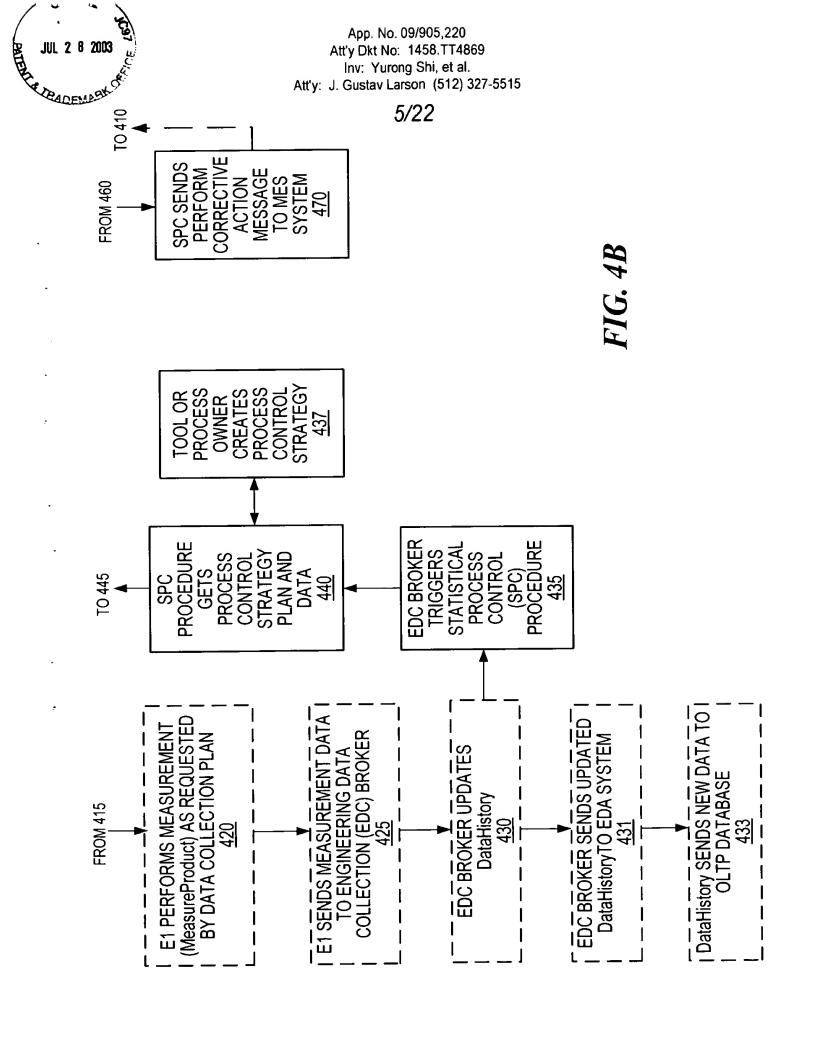
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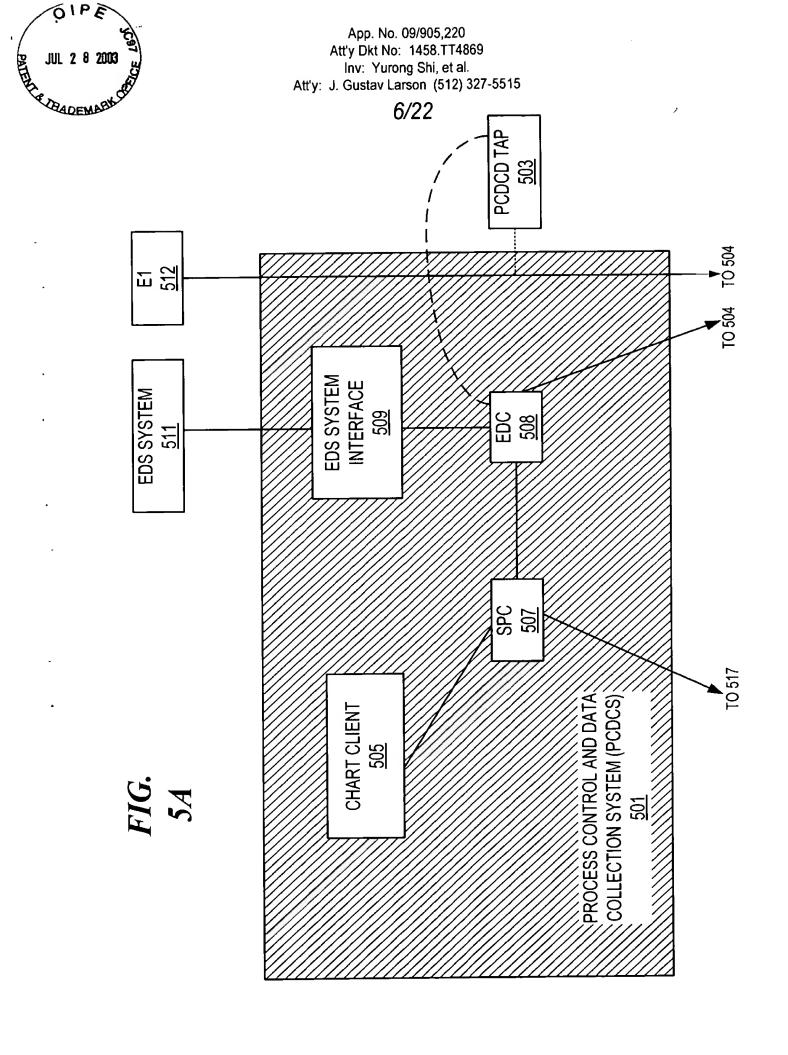






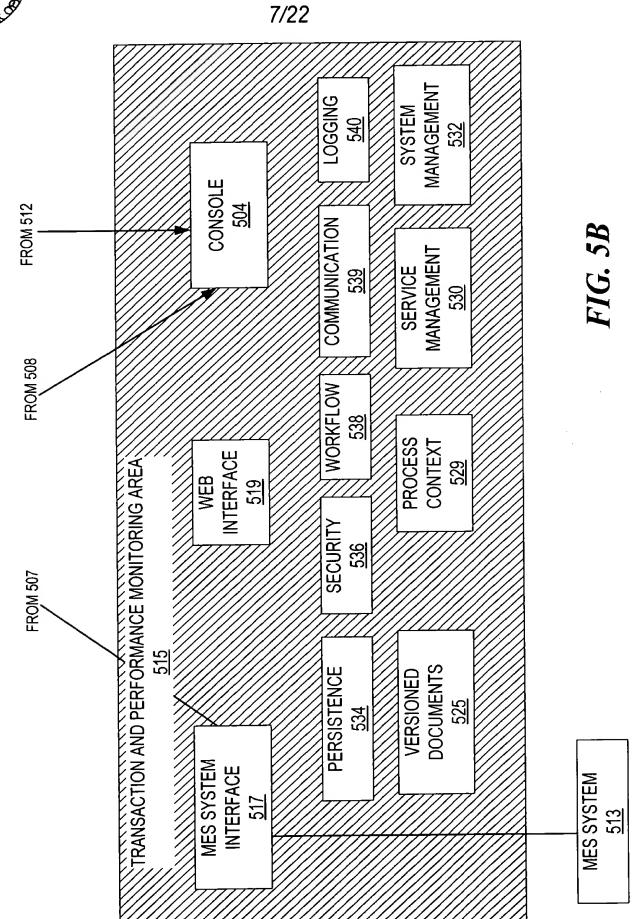






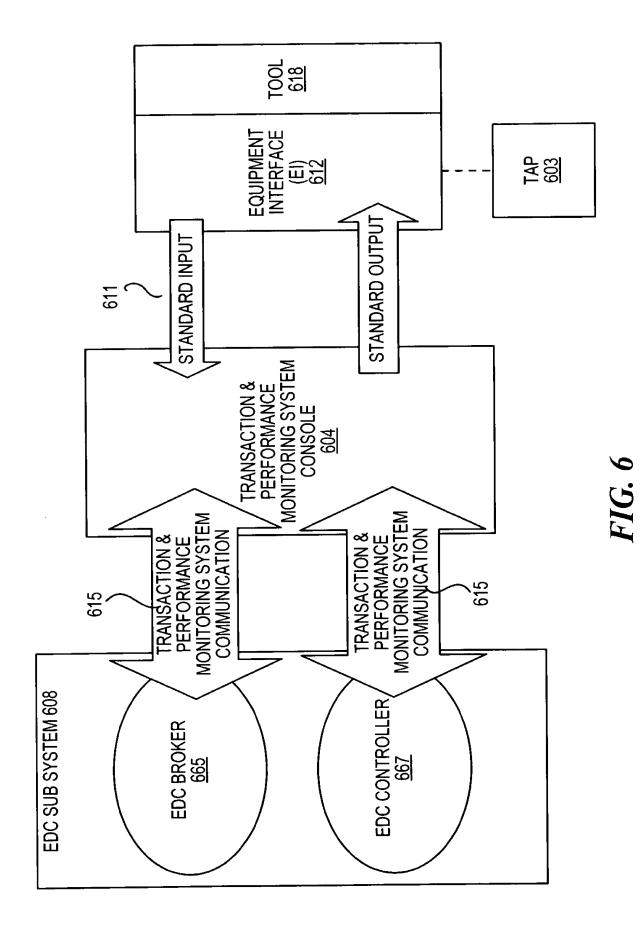


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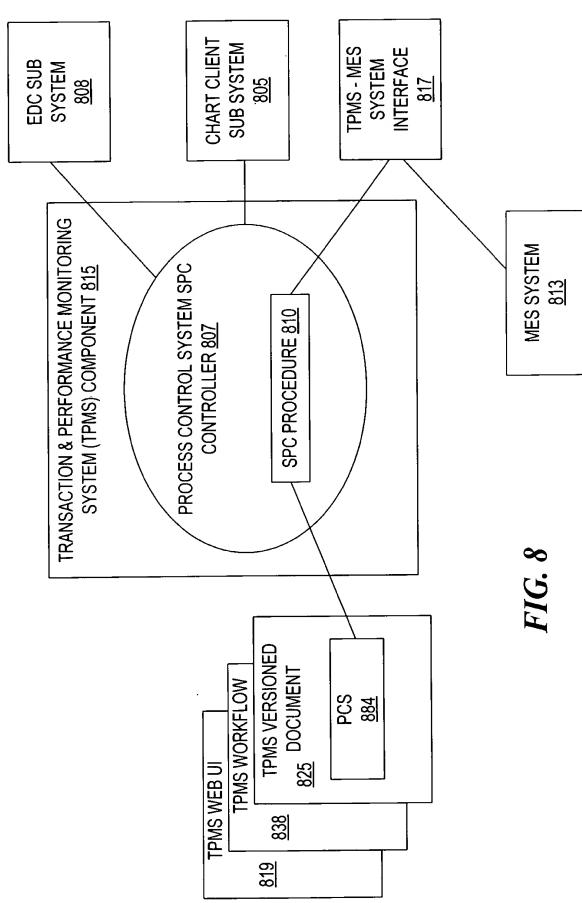


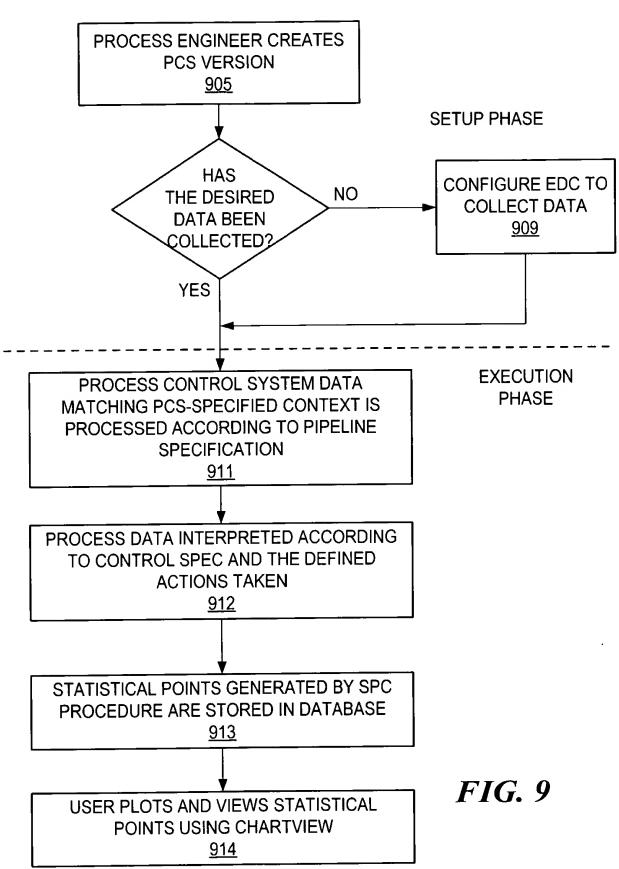
App. No. 09/905,220 Att'y Dkt No: 1458.TT4869 JUL 2 8 2003 Inv: Yurong Shi, et al. Att'y: J. Gustav Larson (512) 327-5515 PADEMARK 9/22 KEYBOARD DATA ENTRY CLIENT 704 **TPMS WEB UI** TAP SUB SYSTEM 703 EI CLIENT 795 EDC CONTROLLER
777 EDC BROKER <u>765</u> SPC SUB SYSTEM 707 TRANSACTION & PERFORMANCE MONITORING SYSTEM (TPMS) COMPONENT 715 EDA SYSTEM INTERFACE SUB SYSTEM 709 DATA HISTORY <u>785</u> TPMS DATABASE <u>790</u> DCCS TPMS VERSIONED DOCUMENT 725 SS 20 TPMS WORKFLOW SPNS 780 SCES FIG. 7 **TPMS WEB UI** 738

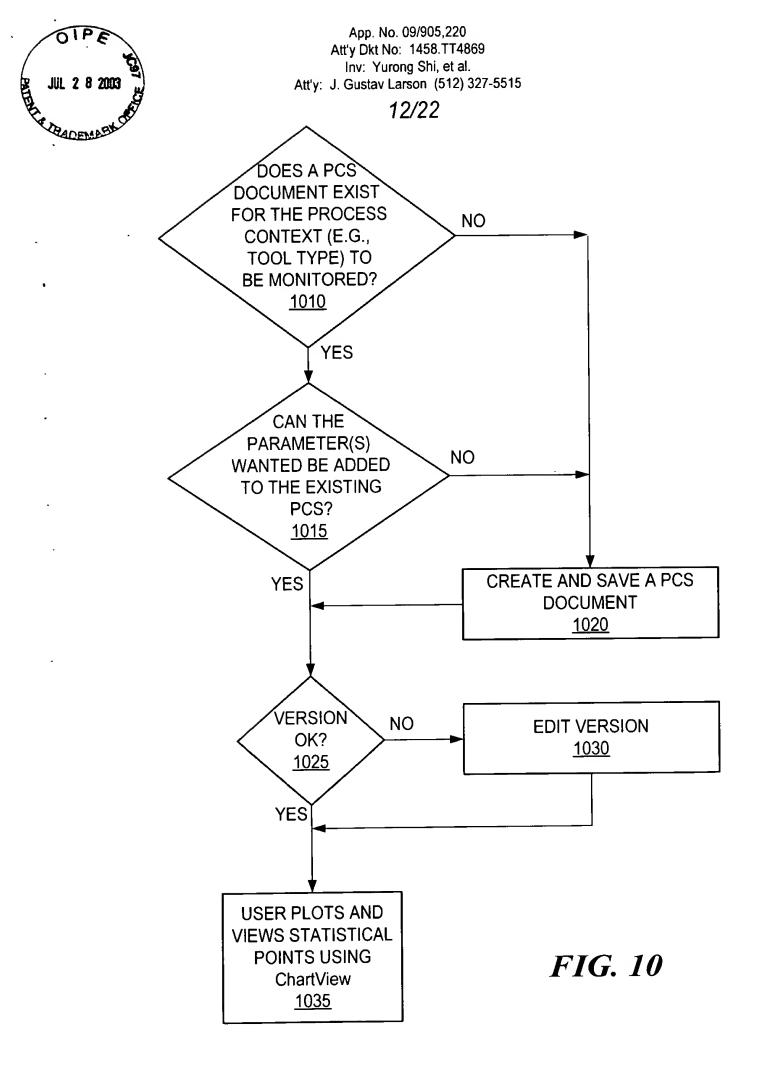
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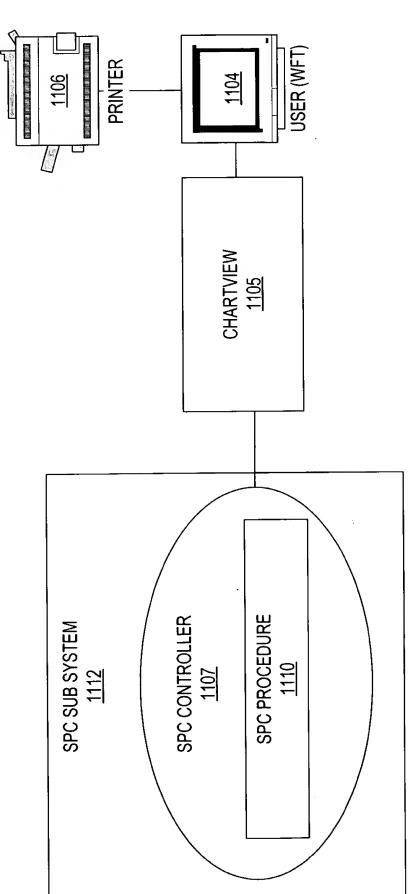
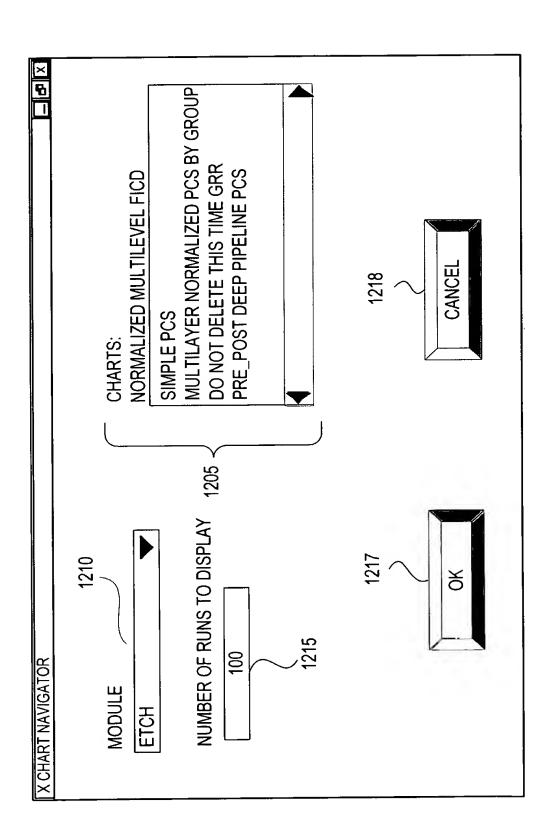


FIG. 11



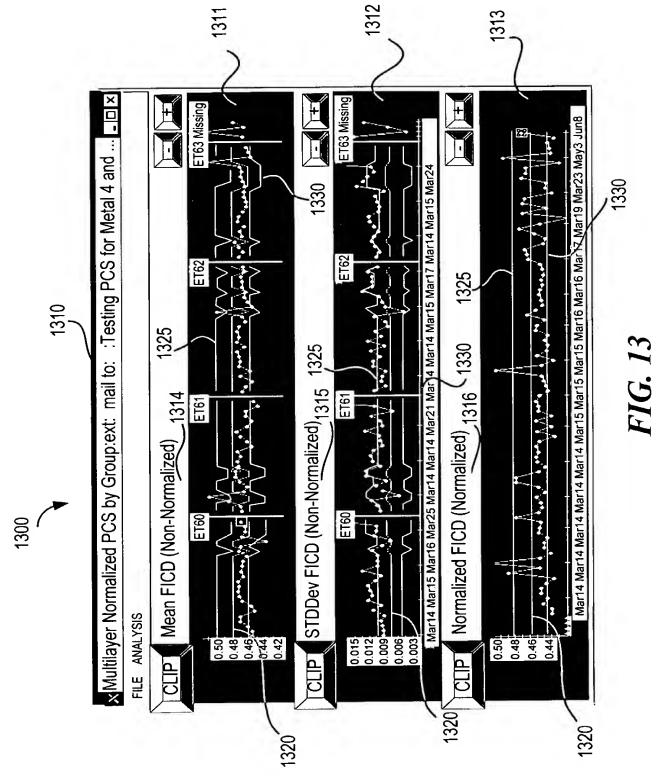
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FIG. 12



1200







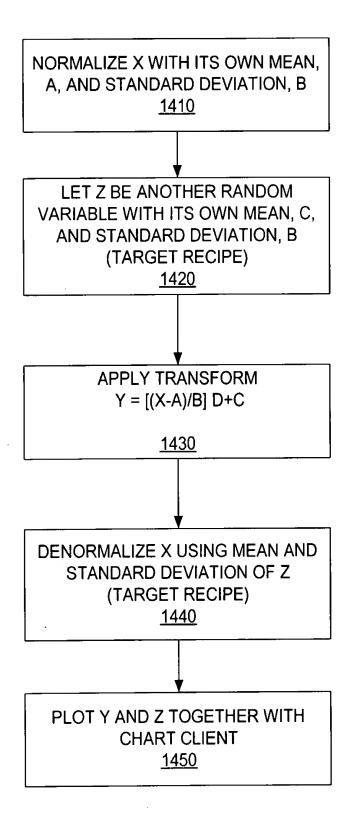


FIG. 14



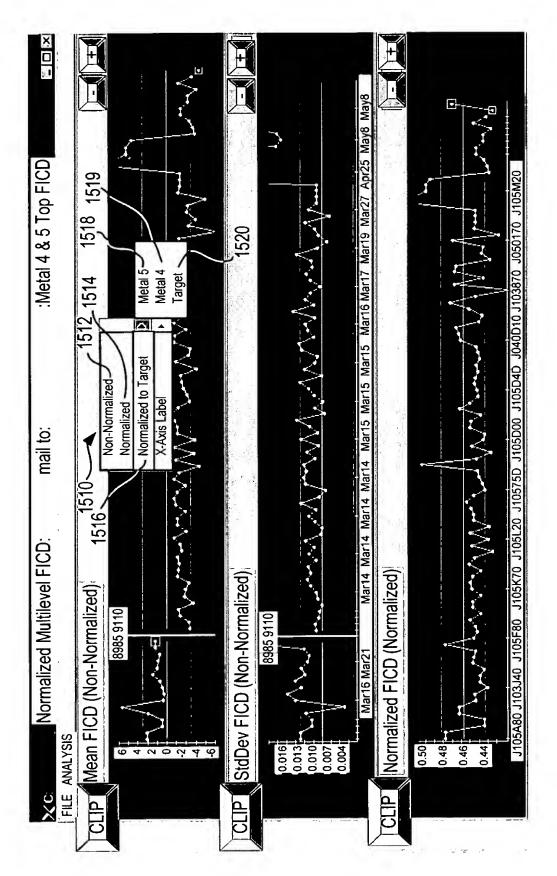


FIG. 15



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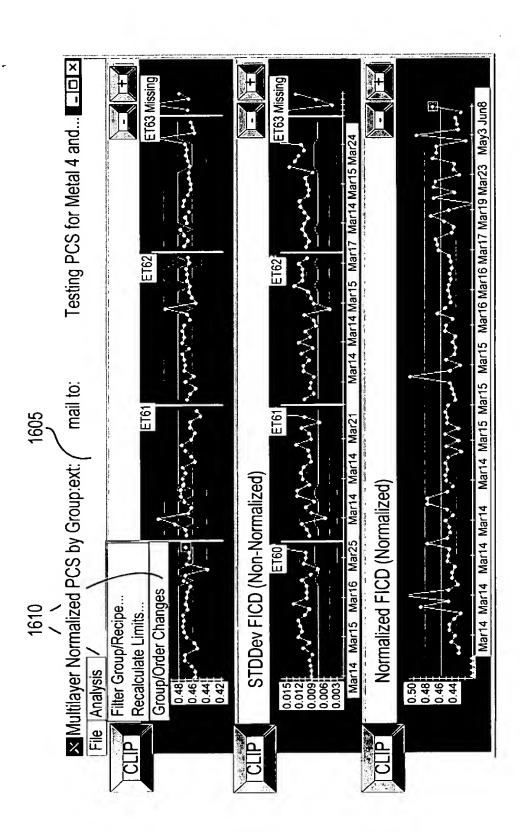


FIG. 16



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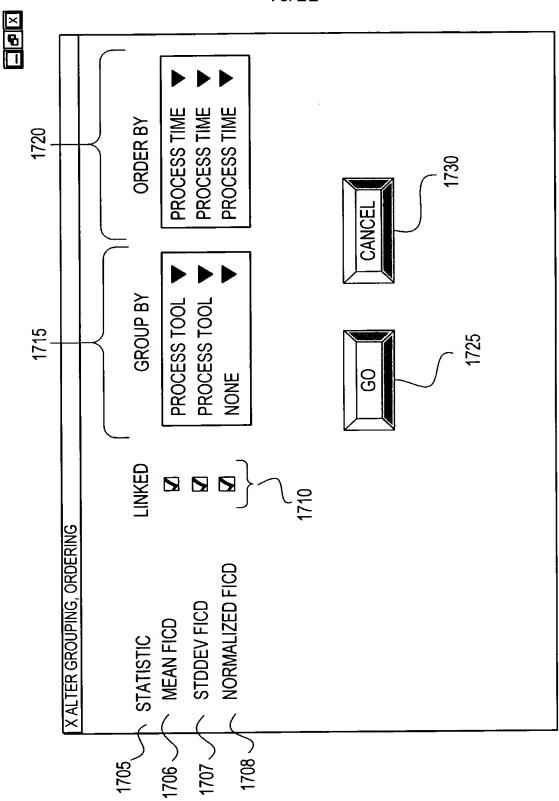


FIG. 17

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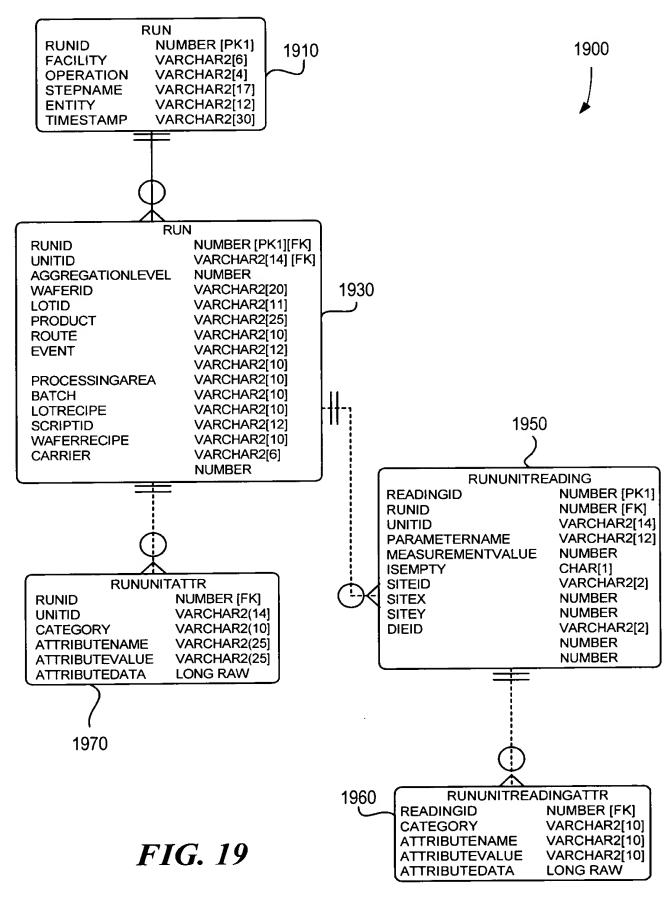
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20/22 FIG. 18 1835 1811 ANNOTATION MESSAGE OOC VIOLATION: ONE OUT ABOVE IWE CONTROL RULES] DONE BRING BACK TOOL SCF CORRECT CREATOR RELEASE LOT **OUT-OF-CONTROL ACTIONS** X GRAPHPOINT DETAIL WINDOW 1825 VALUE: 0.524400 UCL: 0.5 TARGET: 0.48 LCL: 0.46 PCS RECIPE: METAL 5 RUNLD: 106537 GENERAL INFORMATION ANNOTATION HISTORY ACTION TIME TIME GENERAL HOLD LOT 1816 1812 1814 1810

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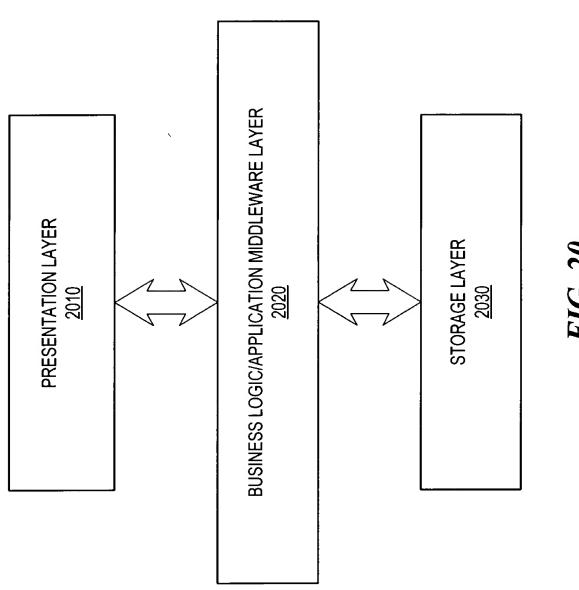


FIG. 20